

JC14 Rec'd PCT/PTO 05 JUL 2005

## SEQUENCE LISTING

<110> BASF Aktiengesellschaft  
 <120> Method for preserving and/or storing  
     cells which possess nitrilase or nitrile hydratase activity  
 <130> AE20020980  
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 <170> PatentIn Ver. 2.1  
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 <211> 1071  
 <212> DNA  
 <213> Alcaligenes faecalis  
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 <221> CDS  
 <222> (1)..(1068)  
 <223> coding for nitrilase  
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 atg cag aca aga aaa atc gtc cg<sup>g</sup> gca gcc g<sup>cc</sup> gta c<sup>ag</sup> g<sup>cc</sup> g<sup>cc</sup> t<sup>ct</sup> 48  
 Met Gln Thr Arg Lys Ile Val Arg Ala Ala Ala Val Gln Ala Ala Ser  
   1                  5                 10                 15  
 ccc aac tac gat ctg gca ac<sup>g</sup> g<sup>gt</sup> gtt gat aaa acc att gag ctg g<sup>ct</sup> 96  
 Pro Asn Tyr Asp Leu Ala Thr Gly Val Asp Lys Thr Ile Glu Leu Ala  
   20                 25                 30  
 cgt cag gcc cgc gat gag g<sup>gc</sup> t<sup>gt</sup> gac ctg atc g<sup>tg</sup> t<sup>tt</sup> g<sup>gt</sup> gaa acc 144  
 Arg Gln Ala Arg Asp Glu Gly Cys Asp Leu Ile Val Phe Gly Glu Thr  
   35                 40                 45  
 tgg ctg ccc gga tat ccc ttc cac gtc t<sup>gg</sup> ctg g<sup>gc</sup> gca cc<sup>g</sup> g<sup>cc</sup> t<sup>gg</sup> 192  
 Trp Leu Pro Gly Tyr Pro Phe His Val Trp Leu Gly Ala Pro Ala Trp  
   50                 55                 60  
 tcg ctg aaa tac agt gcc cgc tac tat g<sup>cc</sup> aac tcg c<sup>tc</sup> tcg ctg gac 240  
 Ser Leu Lys Tyr Ser Ala Arg Tyr Tyr Ala Asn Ser Leu Ser Leu Asp  
   65                 70                 75                 80  
 agt gca gag t<sup>tt</sup> caa cgc att g<sup>cc</sup> c<sup>ag</sup> g<sup>cc</sup> g<sup>ca</sup> c<sup>gg</sup> acc tt<sup>g</sup> g<sup>gt</sup> att 288  
 Ser Ala Glu Phe Gln Arg Ile Ala Gln Ala Ala Arg Thr Leu Gly Ile  
   85                 90                 95  
 ttc atc gca ctg g<sup>gt</sup> tat agc gag cgc agc g<sup>gc</sup> g<sup>gc</sup> agc c<sup>tt</sup> tac ctg 336  
 Phe Ile Ala Leu Gly Tyr Ser Glu Arg Ser Gly Gly Ser Leu Tyr Leu  
   100              105                 110  
 ggc caa tgc ctg atc gac gac aag g<sup>gc</sup> gag atg ctg t<sup>gg</sup> tcg c<sup>gt</sup> cgc 384  
 Gly Gln Cys Leu Ile Asp Asp Lys Gly Glu Met Leu Trp Ser Arg Arg  
   115              120                 125  
 aaa ctc aaa ccc ac<sup>g</sup> cat gta gag cgc acc gta t<sup>tt</sup> g<sup>gt</sup> gaa g<sup>gt</sup> tat 432  
 Lys Leu Lys Pro Thr His Val Glu Arg Thr Val Phe Gly Glu Gly Tyr  
   130              135                 140  
 gcc cgt gat ctg att g<sup>tg</sup> tcc gac aca gaa ctg g<sup>ga</sup> cgc g<sup>tc</sup> g<sup>gt</sup> g<sup>ct</sup> 480  
 Ala Arg Asp Leu Ile Val Ser Asp Thr Glu Leu Gly Arg Val Gly Ala  
   145              150                 155                 160  
 cta tgc tgc tgg gag cat ttg tcg ccc ttg agc aag tac g<sup>cg</sup> ctg tac 528  
 Leu Cys Cys Trp Glu His Leu Ser Pro Leu Ser Lys Tyr Ala Leu Tyr  
   165              170                 175

tcc cag cat gaa gcc att cac att gct gcc tgg ccg tcg ttt tcg cta	576
Ser Gln His Glu Ala Ile His Ile Ala Ala Trp Pro Ser Phe Ser Leu	
180 185 190	
tac agc gaa cag gcc cac gcc ctc agt gcc aag gtg aac atg gct gcc	624
Tyr Ser Glu Gln Ala His Ala Leu Ser Ala Lys Val Asn Met Ala Ala	
195 200 205	
tcg caa atc tat tcg gtt gaa ggc cag tgc ttt acc atc gcc gcc agc	672
Ser Gln Ile Tyr Ser Val Glu Gly Gln Cys Phe Thr Ile Ala Ala Ser	
210 215 220	
agt gtg gtc acc caa gag acg cta gac atg ctg gaa gtg ggt gaa cac	720
Ser Val Val Thr Gln Glu Thr Leu Asp Met Leu Glu Val Gly Glu His	
225 230 235 240	
aac gcc ccc ttg ctg aaa gtg ggc ggc ggc agt tcc atg att ttt gcg	768
Asn Ala Pro Leu Leu Lys Val Gly Gly Ser Ser Met Ile Phe Ala	
245 250 255	
ccg gac gga cgc aca ctg gct ccc tac ctg cct cac gat gcc gag ggc	816
Pro Asp Gly Arg Thr Leu Ala Pro Tyr Leu Pro His Asp Ala Glu Gly	
260 265 270	
ttg atc att gcc gat ctg aat atg gag gag att gcc ttc gcc aaa gcg	864
Leu Ile Ala Asp Leu Asn Met Glu Glu Ile Ala Phe Ala Lys Ala	
275 280 285	
atc aat gac ccc gta ggc cac tat tcc aaa ccc gag gcc acc cgt ctg	912
Ile Asn Asp Pro Val Gly His Tyr Ser Lys Pro Glu Ala Thr Arg Leu	
290 295 300	
gtg ctg gac ttg ggg cac cga gac ccc atg act cgg gtg cac tcc aaa	960
Val Leu Asp Leu Gly His Arg Asp Pro Met Thr Arg Val His Ser Lys	
305 310 315 320	
agc gtg acc agg gaa gag gct ccc gag caa ggt gtg caa agc aag att	1008
Ser Val Thr Arg Glu Glu Ala Pro Glu Gln Gly Val Gln Ser Lys Ile	
325 330 335	
gcc tca gtc gct atc agc cat cca cag gac tcg gac aca ctg cta gtg	1056
Ala Ser Val Ala Ile Ser His Pro Gln Asp Ser Asp Thr Leu Leu Val	
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Gln Glu Pro Ser	
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Pro Asn Tyr Asp Leu Ala Thr Gly Val Asp Lys Thr Ile Glu Leu Ala	
20 25 30	
Arg Gln Ala Arg Asp Glu Gly Cys Asp Leu Ile Val Phe Gly Glu Thr	
35 40 45	
Trp Leu Pro Gly Tyr Pro Phe His Val Trp Leu Gly Ala Pro Ala Trp	
50 55 60	
Ser Leu Lys Tyr Ser Ala Arg Tyr Tyr Ala Asn Ser Leu Ser Leu Asp	
65 70 75 80	

Ser Ala Glu Phe Gln Arg Ile Ala Gln Ala Ala Arg Thr Leu Gly Ile  
 85 90 95  
 Phe Ile Ala Leu Gly Tyr Ser Glu Arg Ser Gly Gly Ser Leu Tyr Leu  
 100 105 110  
 Gly Gln Cys Leu Ile Asp Asp Lys Gly Glu Met Leu Trp Ser Arg Arg  
 115 120 125  
 Lys Leu Lys Pro Thr His Val Glu Arg Thr Val Phe Gly Glu Gly Tyr  
 130 135 140  
 Ala Arg Asp Leu Ile Val Ser Asp Thr Glu Leu Gly Arg Val Gly Ala  
 145 150 155 160  
 Leu Cys Cys Trp Glu His Leu Ser Pro Leu Ser Lys Tyr Ala Leu Tyr  
 165 170 175  
 Ser Gln His Glu Ala Ile His Ile Ala Ala Trp Pro Ser Phe Ser Leu  
 180 185 190  
 Tyr Ser Glu Gln Ala His Ala Leu Ser Ala Lys Val Asn Met Ala Ala  
 195 200 205  
 Ser Gln Ile Tyr Ser Val Glu Gly Gln Cys Phe Thr Ile Ala Ala Ser  
 210 215 220  
 Ser Val Val Thr Gln Glu Thr Leu Asp Met Leu Glu Val Gly Glu His  
 225 230 235 240  
 Asn Ala Pro Leu Leu Lys Val Gly Gly Ser Ser Met Ile Phe Ala  
 245 250 255  
 Pro Asp Gly Arg Thr Leu Ala Pro Tyr Leu Pro His Asp Ala Glu Gly  
 260 265 270  
 Leu Ile Ile Ala Asp Leu Asn Met Glu Glu Ile Ala Phe Ala Lys Ala  
 275 280 285  
 Ile Asn Asp Pro Val Gly His Tyr Ser Lys Pro Glu Ala Thr Arg Leu  
 290 295 300  
 Val Leu Asp Leu Gly His Arg Asp Pro Met Thr Arg Val His Ser Lys  
 305 310 315 320  
 Ser Val Thr Arg Glu Glu Ala Pro Glu Gln Gly Val Gln Ser Lys Ile  
 325 330 335  
 Ala Ser Val Ala Ile Ser His Pro Gln Asp Ser Asp Thr Leu Leu Val  
 340 345 350  
 Gln Glu Pro Ser  
 355